

Systems Safety and Reliability Office  
GSFC Project Safety Support

**In all of the following options, the NASA project manager is ultimately responsible for the safety of the personnel, flight hardware and the launch range facilities. Compliance with all OSHA and Applicable Launch Range safety requirements is Mandatory and the responsibility and authority rest solely with the Project Manager.**

**The Systems Safety and Reliability Office provides expert technical support to the Project Manager to implement the required system safety programs.**

\_\_\_\_ **Option 1. \_\_\_\_ Full Implementation** of systems safety program includes complete documentation preparation and integration of the Project Safety Compliance Documentation for approval by the Project Manager and submittal to the appropriate launch range or Johnson Space Center and the Kennedy Space Center. This level of support includes: negotiations with the launch range to establish requirements; collection of design information, performance of safety assessments, fault trees, preparation of the safety package, assistance in preparation and review of all project I&T and launch base procedures, hazard analyses, safety plan preparation and training, monitoring all hazardous operations and launch site safety oversight.

Project safety manager, provides certification to Code 300 and the Project Manager, and the GSFC Center Director that all safety requirements have been met

Project Manager and Project Safety Manager sign final Safety Compliance Data Package.

Support required, full time civil servant and full time support contractor (2.0fte)

\_\_\_\_ **Option 2.** Project Safety manager negotiates with the launch range to establish the applicable requirements and schedules and prepares integrated safety compliance data package, with the design inputs for the individual subsystem and instrument sections being written by the subsystem and instrument leads. PSM reviews all project procedures, monitors all hazardous operations first time, prepares project safety plan and provides any applicable safety training, and provides launch site safety monitoring for hazardous operations.

Project safety manager, provides certification to Code 300 and the Project Manager, and the GSFC Center Director that all safety requirements have been met.

Project Manager and Project Safety Manager sign final Safety Compliance Data Package.

Support required, full time civil servant (.75-1.0 fte)

\_\_\_\_**Option 3.** Partial implementation. PSM reviews and approves the integrated SCDP developed by the Party Assigned (PA), by the Project Manager the responsibility of generating the integrated SCDP. The PA negotiates with the Launch Range to establish applicable requirements with the assistance of the PSM. The PSM provides comments to the SCDP developer and reviews hazardous operations procedures for approval. Provides minimal launch site coverage.

Project safety manager, provides certification to Code 300 and the Project Manager, and the GSFC Center Director that all safety requirements have been met.

Project Manager, Project Safety Manager, and SCDP developer sign final Safety Compliance Data Package.

Support required, (.5 fte)

\_\_\_\_**Option 4.** Partial implementation. PSM reviews the integrated SCDP developed by the Party Assigned (PA), by the Project Manager the responsibility of generating the integrated SCDP. The PA negotiates with the Launch Range to establish the applicable requirements. The PSM provides comments to the SCDP developer regarding launch range noncompliances and reviews hazardous operations procedures. Makes recommendations to the Project manager regarding the status of compliance with the requirements.

Project manager and the SCDP developer provide certification that all requirements have been met.

Project Manager and SCDP developer sign final Safety Compliance Data Package

Support required, (.2 fte)

\_\_\_\_**Option 5.** Partial implementation. PSM provides only consultation support to the SCDP developer and to the Project Manager. No review of SCDP, no review of hazardous procedures, no launch site support no assistance in negotiating the applicable requirements unless specifically requested. No recommendations to the Project manager on acceptability of the SCDP, unless there has been involvement specifically requested by the SCDP developer.

Project manager and the SCDP developer provide certification that all requirements have been met.

Project Manager and SCDP developer sign final Safety Compliance Data Package

Support required, (.1 fte)

\_\_\_\_ **Option 6.** No PSM involvement in mission. Project Manager responsible for assessing the compliance with the range requirements and certifying that the requirements have been met and for signing the SCDP.